## WHAT IS CLAIMED IS:

- 1. An exhaust control system for a cylinder fuel injection engine having a cylinder injection injectors directly injecting a fuel into combustion chambers and a catalytic converter provided in an exhaust passage from said combustion chambers for purifying an exhaust gas, wherein an air/fuel ratio in said combustion chambers is periodically made rich.
- 2. An exhaust control system for a cylinder fuel injection engine as set forth in claim 1, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for making a period to making the air/fuel ratio in the combustion chambers rich (rich period) longer when a temperature of the catalytic converter is lower than a predetermined value.
- 3. An exhaust control system for a cylinder fuel injection engine as set forth in claim 1, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for reducing fuel amount to be injected into the combustion chamber for reducing degree of making the mixture rich when a temperature of the catalytic converter is lower than a predetermined value.
- 4. An exhaust control system for a cylinder fuel injection engine as set forth in claim 1, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic

converter for implementing combustion control for increasing CO in the exhaust gas when a temperature of the catalytic converter is lower than a predetermined value.

- 5. An exhaust control system for a cylinder fuel injection engine as set forth in claim 2, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for implementing combustion control for increasing CO in the exhaust gas when a temperature of the catalytic converter is lower than a predetermined value.
- 6. An exhaust control system for a cylinder fuel injection engine as set forth in claim 3, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for implementing combustion control for increasing CO in the exhaust gas when a temperature of the catalytic converter is lower than a predetermined value.
- 7. An exhaust control system for a cylinder fuel injection engine having a cylinder injection injectors directly injecting a fuel into combustion chambers and a catalytic converter provided in an exhaust passage from said combustion chambers for purifying an exhaust gas, wherein at least one time of auxiliary fuel injection is performed at a timing from expansion stroke to exhaust stoke after a primary injection

injecting a primary fuel for obtaining an output of the engine.

- 8. An exhaust control system for a cylinder fuel injection engine as set forth in claim 7, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for making a period of auxiliary injection longer when the temperature of the catalytic converter is lower than the predetermined value.
- 9. An exhaust control system for a cylinder fuel injection engine as set forth in claim 7, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for reducing fuel amount of the auxiliary injection when the temperature of the catalytic converter is lower than the predetermined value.
- 10. An exhaust control system for a cylinder fuel injection engine as set forth in claim 7, which includes a catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for retarding timing of said auxiliary injection when the temperature of the catalytic converter is high than the predetermined value.
- 11. An exhaust control system for a cylinder fuel injection engine having a cylinder injection injectors directly injecting a fuel into combustion chambers and a catalytic converter provided in an exhaust passage from said combustion chambers for purifying an exhaust

gas, wherein catalytic converter temperature measuring means for measuring a temperature of said catalytic converter for periodically inhibiting ignition when the temperature of the catalytic converter is high than the predetermined value.